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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,735	10/24/2003	Robert H. Gerber	MS306693.1/MFTP545US	3 2403
27195 AMIN. TURO	7590 12/17/2007 CY & CALVIN, LLP	EXAMINER		
24TH FLOOR,	NATIONAL CITY CE	CHOW, CHIH CHING		
1900 EAST NINTH STREET CLEVELAND, OH 44114			ART UNIT	PAPER NUMBER
			2191	
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			NOTIFICATION DATE	DELIVERY MODE
			12/17/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/693,735	GERBER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Chih-Ching Chow	2191			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 31 Oc	ctober 2007.				
· ·	· · · _				
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) <u>1-6,8-18 and 23</u> is/are pending in the a	application.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6,8-18 and 23</u> is/are rejected.	·				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner	•				
10)⊠ The drawing(s) filed on <u>24 October 2003</u> is/are:		to by the Examiner.			
Applicant may not request that any objection to the	, , , , , , , , , , , , , , , , , , , ,	· ·			
Replacement drawing sheet(s) including the correction		, ,			
11)☐ The oath or declaration is objected to by the Exa					
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a).	-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents	have been received.				
Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priori					
application from the International Bureau	•				
* See the attached detailed Office action for a list of	• • • • • • • • • • • • • • • • • • • •	d.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary ((PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Pa 6) Other:	atent Application			
Paper No(s)/Mail Date 6) Other:					

DETAILED ACTION

- 1. This action is responsive to amendment dated October 31, 2007.
- 2. Per Applicants' request, independent claims 1, 14, 18, and 23 have been amended, claims 19-22 canceled.
- 3. Claims 1-6, 8-18, and 23 remain pending.
- 4. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 31, 2007 has been entered.

Response to Arguments

- 5. Applicants' arguments for Claims 1-6, and 8-13 have been fully considered respectfully by the examiner but they are not persuasive.
- 6. Applicants' arguments are basically in the following points:
 - "Yamanoue does not disclose utilizing preferences and stored procedures to produce a results table, such that specified actions are triggered based on the stored preferences." (See REMARKS dated 10/31/07 page
 7)

Examiner's Response: Yamanoue's teaching utilizes preferences and produces result tables, see Yamanoue's Fig. 12 and column 19, lines 30-35, "The query management means 37 registers queries which are not merged in S53 in the query DB 36, and also modifies/deletes queries registered in the query DB 36, when the query management means 37 determines that the queries are not used by a user possessing another user ID, by using a query management table (stored procedure to query tables within the data store and produce a results table)";

further, see Fig. 13, and column 11, lines 28-30, "The user specifying data management means (user specifying data management means) 42 manages user specifying data which can specify each user. Also, the means 42 is used when recording/reading the user specifying data to/from, for instance, a removable storage medium, and the means 42 manages the user data in a condition that online access from outside is not available" (retrieving the preferences from the data store).

7. Applicants' arguments for Claims 14-18, and 23 have been fully considered respectfully by the examiner, they are persuasive, but new prior arts are found for those claims.

Double Patenting

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

9. Claim 18 in the current application is provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims of US 2005/0091184 A1. Although the conflicting claims are not identical, they are not patentably distinct from each other, from the comparison listed in the following table:

Co-Application (10/692,885) US 2005/0091184 A1	Current-Application (10/693,735) US 2005/0091269 A1
Claims	Claim 18
1. A system for organizing data, comprising: a data storage component; a plurality of folders comprising links to particular data files stored in the data storage component, the content of the folders controlled at least in part by end-user specified preferences, the folders include any type of link collection defined by a set of relationships; and 2. The system of claim 1, the data storage component stores schematized data. 8. The system of claim 6, the preferences specified in accordance with a developer specified schema.	A method for employing preferences comprising: specifying user preferences regarding an information agent application based on a developer schema; storing the preferences in one or more tables in a data store; querying the tables in the data store upon occurrence of an event; producing a result table;

- 1. (cont'd) an assessor that effectuates actions and conditions associated with the content of the folders across multiple domains via resolve or link values associated with two or more different executable applications.
- 3. The system of claim 1, the preferences are specified using a plurality of ON (event) IF (condition) THEN (action) statements and one or more Boolean operators.
- 6. The system of claim 1, the preferences specify a plurality of conditions and actions.

and executing actions based on the results table, wherein user preferences are specified by utilizing a one-at-atime declarative programming model, wherein user preferences are specified

using one or more On-event-If-Then statements and Boolean operators to specify conditions and actions, wherein querying the tables comprises executing query_ language statements, the developer schema is an XML schema.

Claim 18 of current application is anticipated by co-application, claims in that co-application claims contain all the limitations of the current application claims. Claim 18 of the current application therefore is not patentably distinct from co-application claims and as such is unpatentable for obvious-type double patenting.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

11. Claims 1-5, 11-13 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent No. 6,745,180 B2, by Yamanoue, hereinafter "Yamanoue".

As Per claim 1, Yamanoue discloses:

- (Currently Amended) A preference evaluation execution system comprising: a data store component for storing schematized data and end-user specified preferences;

Yamanoue's disclosure stores user preference data, see Yamanoue 's column 1, lines 8-15, "The present invention relates to a data supply controlling device, a data supplying method, a storage medium (a data store) storing a data supplying program, and a data supplying system, in which a system is used which searches for information (of books, for instance) using a data supplying device and provides search results to the user (user terminal) via the data supply controlling device in such a manner to provide information suitable for user's preference and interest by referring to user data". And see Yamanoue's column 29, lines 14-20, "Incidentally, Japanese Examined Patent Publication No. 2976219 discloses that user data is recorded, for instance, in a storage medium such as IC memory, and the user data stored in the storage media above is read by a terminal of the user when a search for commercial information is conducted, and then a host computer conducts an information search by picking up only required data from the user data."-- wherein the storage medium is as a the 'data store'; as to the schematized data, any "data, logic, events, inter alia, are all schematized", see the citation in the current application Abstract, and paragraph [0010], "Schematization is the structuring of data in well-known and well-defined patterns, which enables multiple applications to recognize and interact with each other."

- a compiler to compile <u>information agent</u> applications including end-user specified preferences and store them the compiled information agent <u>applications</u> in the data store; and

See Yamanoue's column 22, lines 5-8, "After the data compiled or read in S64 or S65is sent to the user terminal 1 by the data supplying means 41", and column 22, lines 17-20, "if the user selects to see data in the user terminal 1 (end-user specified preferences) in the manner of the data browse in S67, the data to be browsed is compiled (S68) and immediately transferred to the user terminal 1 (S69)"; it's inherent that data has to be compiled by a compiler. Further see Yamanoue 's claim 1, "A data supply controlling device, comprising: user data storage means for storing user data for each user who is to be supplied with information through a user terminal (end-user specified preferences); query generating means for generating, based on at least the user data, a query for a data supplying device to search for the information; search result storage means for storing a result of a search conducted by the data supplying device for the information in accordance with the query; identifying data management means for managing identifying data by which each user can be identified, separately from user specifying data by which each user can be specified; and data supplying means for generating a search result matched with the identifying data of the user from the search result stored in the search result storage means".

- an execution engine to retrieve preferences stored in the data store upon the occurrence of one or more events and to utilize the preferences and at least one stored procedure to query tables within the data store and produce a results table, wherein the results table stores preferences whose conditions have been satisfied such that specified actions are triggered based on the stored preferences.

> See Yamanoue's Fig. 12 and column 19, lines 30-35, "The query management means 37 registers queries which are not merged in S53 in the query DB 36, and also modifies/deletes queries registered in the query DB 36, when the query management means 37 determines that the queries are not used by a user possessing another user ID, by using a query management table (stored procedure to query tables within the data store and produce a results table)": further, see Fig. 13, and column 11, lines 28-30, "The user specifying data management means (user specifying data management means) 42 manages user specifying data which can specify each user. Also, the means 42 is used when recording/reading the user specifying data to/from, for instance, a removable storage medium, and the means 42 manages the user data in a condition that online access from outside is not available" (retrieving the preferences from the data store); and column 15, lines 42-56, "The query generator 35 of the search service center 3 reads data of modification/updating of the queries that are set by using the user terminal 1 and also data that registered in the user data DB 32, the search rule DB 34, and the query DB 36 that are needed to modify/update the queries (S45), and the query generator 35 automatically generates queries matched with the user ID (S46)... Then the query management means 37 registers the queries generated in S46 in the query DB 36 again. Meanwhile, the user data management means 33 registers data, for providing data matched with a user ID (data to generate the exclusive query and the filtering query that are both described later), in the user data DB 32, as search result filtering data 59 (S47)", and Yamanoue's Abstract, "The data base of user data can be queried in accordance with the user data so that a data server performs a search according to the query and stores the search results in a search result data base." - search within the data store (user data DB) via query DB (query tables), the results are produced in a results table (search result data base), wherein the preferences are similar as 'search rules'. Further, see

Yamanoue's column 28, lines 42-46, "the stored program may be arranged to be executed by an access of a microprocessor (not illustrated), or arranged so that the program is executed (execution engine to evaluate the stored preferences) by reading the stored program and then downloading the read program to a program storage of a delivery server and a receiving server." Basically Yamanoue's disclosure as specified in his claim 38, "A storage medium (data store) for storing a data supply program executed (execution engine) by a computer to implement a method of supplying data, the method comprising the steps of: storing, in user data storage means, user data for each user who is to be supplied with information through a user terminal (store data upon the occurrence of one or more events); generating, based on at least the user data, a query for a data supplying device to search for the information; storing, in search result storage means, a result of a search conducted by the data supplying device for the information in accordance with the query".

As Per claim 2, Yamanoue discloses:

Taking one or more actions specified by a conditionally valid preference.

Claim 1 rejection is incorporated, conditionally valid preference is disclosed in Yamanoue's 'search rules', see Yamanoue's Fig. 1 and description, and example in column 8, lines 49 into column 9, "If the data server 2 is a server searching information of books as in the present embodiment, as the search rule described above, the search rule generator 24 sets a rule that enables the search service center 3 to generate queries, which are capable of searching information of books, on the basis of the user data.", couple 'IF' conditions are assessed (column 8, lines 56-62) from Data Server 2, further actions are taken at Search Service Center 3.

The query rules specified in FIG. 3 can all considered as 'conditionally valid preference'.

As Per claim 3, Yamanoue discloses:

- The system of claim 2, the action component comprising a notification component that transforms and formats notification data generated by the execution engine based on a user preference for one or more user communication devices.

Claim 2 rejection is incorporated, Yamanoue's disclosure including a 'search result management' component, which would transform and form notification data generated by the execution engine based on a user preference on a user's communication device, see Yamanoue's FIG 1, and FIG. 16, and description in column 8, lines 12-21, "The search result management means 13 (a notification component) stores the search results being transferred from the search service center 3 to the user terminal 1" and "...The display 15 offers a GUI (Graphical User Interface) for various operations and displays search results, and includes a PC monitor, for instance."

As Per claim 4, Yamanoue discloses:

- The system of claim 1, wherein the communication devices include a mobile phone, a pager, a PDA, and a computer.

Claim 1 rejection is incorporated, Yamanoue's teaching include a computer or a mobile phone, see Yamanoue's column 7, lines 34-40, "The user terminal 1 is used by the user being provided data by the present system. What can be used as the terminal 1 are, for instance, devices owned by the users and can be connected to the network 4 such as a PC (personal computer), a mobile

information terminal and a mobile phone, and also a dedicated terminal capable of being used in the system."

As Per claim 5, Yamanoue discloses:

- The system of claim 1, further comprising an event component to extract event data from an event source and store the data in the data store.

Claim 1 rejection is incorporated, each data storage or data query/retrieval in Yamanoue's disclosure is considered as an event, see column 3, lines 38-59, "A data supply controlling device in accordance with the present invention, in order to accomplish the foregoing objective, is characterized in that it includes: a user data storage section for storing user data for each user who is to be supplied with information through a user terminal" – the data supply controlling device serves as an event component, which can extract event data from the input source and store the data in the data store.

As Per claim 11, Yamanoue discloses:

- The system of claim 1, the execution engine evaluates preferences by executing queries on data stored in the data store.

Claim 1 rejection is incorporated, for rest of claim 11 feature see Yamanoue's Abstract, "A data supply controlling device comprises a data base for user data which stores user data matched with each user. The data base of user data can be queried (executing queries on data stored in the data store) in accordance with the user data so that a data server performs a search according to the query and stores the search results in a search result data base." and column 4, lines 46-55, "storing, in a user data storage section, user data for each user who is to be supplied with information through a user terminal; generating, based on at least the user data, a query to search data supplied from a data supplying device;

searching for information in accordance with the query; (executing queries) storing a search result in a search result storage section".

As Per claim 12, Yamanoue discloses:

- The system of claim 1, wherein end-user preferences are based on a developer specified schema.

Claim 1 rejection is incorporated, for rest of claim 12 feature see Yamanoue's FIG 2 and description in column 12, lines 25-28, "The user defined data 61 is data that the user can designate in relation to a data search, for each of the following items such as: an each user's search rule to generate queries: an alteration of the generated search rule; and frequency to conduct the search." – the user specified schema.

As Per claim 13, Yamanoue discloses:

- The system of claim 12, wherein information regarding end-user preferences and the developer schema are stored in one or more tables in the data store.

Claim 12 rejection is incorporated, for rest of claim 13 feature see Yamanoue's column 19, lines 9-11, "Then the query management means 37 stores the filtering query matched with each user ID, which is **stored in the user data DB** 32, in a **user ID table**". – preference data stored in one or more tables in the data store.

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

13. Claims 14-17 are rejected under 35 U.S.C. 102(b) as being anticipated by prior art of record, Knutson et al. (U.S. Patent No. 5,870,746), hereinafter "Knutson".

As Per claim 14, Knutson discloses:

- (Currently Amended) A method for application installation comprising: establishing a set of base tables <u>in a data store</u>;

Knutson anticipates independent claim 14 by the following:

See Knutson's at col. 7, lines 53-54.

See Knutson's col. 62, lines 36-37 and col. 8, lines 11-13.

- storing program actions, conditions, events and procedures as data in a the data store; and

'conditions, events, and procedures as data' is taught by Knutson at col. 8, lines 11-13, col. 7, lines 16-19, and col. 22, lines 22-31.

- updating the base tables with application data associated with an application being installed by retrieving program text from the data store and executing the program text.

This feature is taught by Knutson at col. 7, lines 16-19 and col. 5, lines 25-27. The term "background" is used to suggest the term "context".

As Per claim 15, Knutson discloses:

- The method of claim 14, wherein the application employs user defined preferences.

Claim 14 rejection is incorporated, further see Knutson's col. 62, lines 36-37 and col. 8, lines 11-13.

As Per claim 16, Knutson discloses:

- The method of claim 14, wherein application data includes application procedures that are stored as data.

Claim 14 rejection is incorporated, further see Knutson's Abstract, lines 11-16, wherein the application program is the same as the application procedures.

As Per claim 17, Knutson discloses:

- A computer readable medium having instructions stored thereon for carrying out the method of claim 14.

Claim 14 rejection is incorporated, further see Knutson's col. 64, lines 61-64.

Claim Rejections - 35 USC § 103

- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. Claims 6, 8, 9, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,745,180 B2, by Yamanoue, hereinafter "Yamanoue", in view of U.S. 2003/0126136 A1 by Omoigui, hereinafter "Omoigui".

As Per claim 6,

- The system of claim 5, wherein the event source is a subscription service.

For claim 5 feature see claim 5 rejection, Yamanoue teaches all aspects of claim 6, but he does not disclose 'event source is a subscription service' explicitly, however, Omoigui teaches this feature in an analogous prior art; see Omoigui's paragraph [0254], "Network News Transfer Protocol (NNTP). ... NNTP is designed so that news articles are stored in a central database allowing subscribers to select only those items they wish to read." And [0267], "this refers to all the data stored on users' local machines, in addition to user-specific

data on an Agency server (e.g., subscribed server-side Agencies, server-side Favorite Agents, etc.)." and [0801], "allows users to browse, subscribe, and unsubscribe to or from Agents on a given Agency that supports User State." It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to supplement Yamanoue's disclosure of the method of storing preference data in data store, and extract preference event from event source, by the event source is a subscription service taught by Omoigui. The modification would be obvious because one of ordinary skill in the art would be motivated by delivering the user preference event data only to the interested parties, i.e. subscribed users/agents. (See Omoigui's paragraph [0267]).

As Per claim 8,

- The system of claim 1, further comprising a context analyzer to produce context data indicative of an end-users context at a given time and store the context data in the data store.

Claim 1 rejection is incorporated, Yamanoue teaches all aspects of claim 8, but he does not disclose 'context analyzer at a given time' explicitly, however, Omoigui teaches this feature in an analogous prior art; see Omoigui's Abstract, "The system includes a first server component that is responsible for adding and maintaining domain-specific semantic information and a second server component that hosts semantic and other knowledge for use by the first server component that work together to provide context and time-sensitive semantic information retrieval services to clients operating a presentation platform via a communication medium."; see Omoigui's paragraph [0009], "Regardless of the search technique, the underlying organization of searchable information is index-driven rather than context-driven. The frequency or type of textual information associated the document determines the search results, as opposed to the attributes of the subject

matter of the document and how those attributes relate to the user's context. (end-users context)". Also see Omoigui's paragraph [0255], "The notification source (the client or server) stores information for the user and the Agent indicating the last time (stores data at a given time) the user acknowledged a notification for the Agent".

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to supplement Yamanoue's disclosure of the method of storing preference data in data store, and extract preference event from event source and store the data in data store, by the turning the available data into an end-users context, i.e. usable knowledge, taught by Omoigui. The modification would be obvious because one of ordinary skill in the art would be motivated by turning the data into meaningful context and efficient access for the users. (See Omoigui's paragraph [0006]).

As Per claim 9,

- The system of claim 1, further comprising one or more APIs to interact with applications.

Claim 1 rejection is incorporated, Yamanoue teaches all aspects of claim 9, but he does not disclose 'one or more APIs to interact with applications' explicitly, however, Omoigui teaches this feature in an analogous prior art; see Omoigui's paragraph [0206], "Application Programming Interface (API). Defines how software programmers utilize a particular computer feature. APIs exist for windowing systems, file systems, database systems, networking systems, and other systems."

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to supplement Yamanoue's disclosure of the method of storing preference data in data store, and extract preference event from event

source and store the data in data store by using APIs to interact with applications taught by Omoigui. The modification would be obvious because one of ordinary skill in the art would be motivated by using APIs to capture input information, such as command parameters (See Omoigui's paragraph [0586]).

As Per claim 10,

- The system of claim 1, wherein the compiler can compile and the execution engine can execute both heavyweight applications and lightweight preference applications.

Claim 1 rejection is incorporated, Yamanoue teaches all aspects of claim 10, but he does not disclose 'execute both heavyweight applications and lightweight preference applications' explicitly, however, Omoigui teaches this feature in an analogous prior art; according to the description of the current application. paragraph [0011], "Heavyweight applications include those that are often run on high-end servers and require high-throughput and scalability, among other things. Lightweight applications are those that are often executed on smaller systems such as personal computers and require low-latency, a small database footprint, and small working set." Omoigui teaches the knowledge retrieval system runs on both the high-end servers and the 'smaller systems', see Omoigui's FIGURE 7, and paragraph [0008], "Information access further improved with the advent of the Internet, which connects a large number of computers across diverse geography to provide access to a vast body of information (heavyweight applications). The most wide spread method of providing information over the Internet is via the World Wide Web. The Web consists of a subset of the computers or Web servers connected to the Internet that typically run Hypertext Transfer Protocol (HTTP), File Transfer Protocol (FTP), GOPHER or other servers." And Omoigui's paragraph [0244], "Lightweight Directory Access

Protocol (LDAP). Technology for accessing common directory information. LDAP has been embraced and implemented in most network-oriented middleware. As an open, vendor-neutral standard, LDAP provides an extendable architecture for centralized storage and management of information (smaller systems such as personal computers and require low-latency, and small working set) that needs to be available for today's distributed systems and services. LDAP is currently supported in most network operating systems, groupware and even shrink-wrapped network applications."

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to supplement Yamanoue's disclosure of the method of extracting event from event source and storing preference data in data store by using both heavyweight and lightweight applications taught by Omoigui. The modification would be obvious because one of ordinary skill in the art would be motivated by presenting data to both low-end and high-end servers (See Omoigui's paragraph [0022]).

13. Claims 18 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knutson as applied to claim 1 above, and further in view of Bailey ("An Event-Condition-Action Language for XML").

As Per claim 18,

- (Currently Amended) A method for employing preferences comprising: specifying user preferences <u>regarding an information agent application</u> based on a developer schema;
- "...a data storage component..." at col. 7, lines 53-54.
- "... specifying user preferences..." at col. 62, lines 36-37 and col. 8, lines 11-13
- storing the preferences and schematized data in one or more tables in a data store;

'schematized data' feature is taught by Knutson at col. 7, lines 53-54 and col. 7, lines 11-13.

- querying the tables in the data store upon occurrence of an event and retrieving preferences stored in the data store;

See Kuntson's col. 1, lines 35-37.

- producing a results table, wherein the results table stores preferences whose conditions have been satisfied such that specified actions are triggered;

See Knutson at col. 8, lines 11-13, col. 7, lines 16-19, and col. 22, lines 22-31.

and executing actions based on the data in the results table, wherein user

preferences are specified by utilizing a one-at-a-time declarative programming

model, wherein user preferences are specified using one or more On-event-If
Then statements and Boolean operators to specify conditions and actions,

wherein querying the tables comprises executing query language statements,

the developer schema is an XML schema.

Knutson teaches all aspects of claim 18, but he does not teach 'On-Event-If_Then' and 'XML', however Bailey teaches the use of on event if condition then action statements and the use of Boolean operators" in a analogous prior art, see Bailey's under 2. 'The ECA Rule Language', "...On event if condition do actions. Rather than introducing yet another query language for XML, we use the XPath [32] and XQuery[33] languages to specify events, conditions and actions within our ECA rules. XPath is used in a number of W3C recommendations, such as XPointer, XSLT and XQuery itself, for selecting and matching parts of XML documents and so is well-suited to the requirements of ECA rules. XQuery is used in our ECA rules only where there is a need to be able to construct new fragments of XML. We define each of the components of our ECA rule language below, give some example rules, and describe the rule execution semantics..." at sec. 2.

"...The condition part of an ECA rule is either the constant TRUE, or one or more simple XPath expressions connected by the boolean connectives and, or, not..." at section 2.2.

It would have been obvious to one of ordinary skill at the time of the invention to combine Bailey with Knutson to use "on event if condition do actions" syntax and Boolean operators in order to use commonly accepted software systems and gain greater acceptance from potential users. Knutson and Bailey have related applications. They teach the use of computers, the use of databases, the use of networks, the use of markup languages, the use of schema, the use of pointers, and the use of relationships. Knutson provides data stores, folders, links, relationships, and preferences and Bailey provides "on event if condition do actions" syntax and Boolean operators.

As Per claim 23, Knutson discloses:

- A computer readable medium having instructions stored thereon computer executable instructions for executing the method of claim 19-18.

Claim 18 rejection is incorporated, for rest of claim 23 feature see Knutson's col. 64, lines 61-64.

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ku, US Patent No. 6,532,471, discloses a system, method and user interface for visually browsing and editing one more or CORBA Interface Repositories ("IR") for program objects. A user selects an Interface Repository and an object within the Interface Repository. The IR Browser/Editor presents a three-pane view graphically

depicting a containment tree, an object's interface definition language, and an inheritancy diagram of the selected object.

Thuraisingham, US Patent no. 5,481,700, discloses apparatus for designing a multilevel secure database management system based on a multilevel logic programming system. The apparatus includes a multilevel knowledge base which has a multilevel database in which data are classified at different security levels.

Saxe, US Patent No. 6,343,376, discloses a system and method for increasing the speed of operation of a theorem prover relating to program verification using adaptive pattern matching technique is disclosed. Source code in a specific programming language is converted to one or more formulae, each representing a specific reformulation of the source code that facilitates program verification.

Gram, US Patent No. 5,760,768, discloses Methods for allowing a user to customize an interface for a computer program are provided. The methods allow a user of the computer program flexibility in organizing commands into a menu structure.

Sutter, US Patent No. 6,446,092, discloses an independent distributed database system comprising a plurality of sites wherein all users at all sites work off-line with local data. All application transactions are against the local database only, and every site stores "all and only" the data it needs. On-line transactions occur only in the background, including a periodical "synch" between sites that transmits any changes to data of interest to that site.

Alumbaugh et al., US 2003/0172368, discloses system managers for managing system-wide settings and data, schema managers for providing, storing, listing,

and deleting schemas, user managers for managing users and their preferences, change specification managers for managing storage and retrieval of change specifications.

15. The following summarizes the status of the claims:

35 USC § 102 rejection: Claims 1-5, 11-17

35 USC § 103 rejection: Claims 6, 8-10, 18, 23

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Ching Chow whose telephone number is 571-272-3693. The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Any inquiry of a general nature of relating to the status of this application should be directed to the TC2100 Group receptionist: 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MARY STEELMAN PRIMARY EXAMINER Chih-Ching Chow Examiner Art Unit 2191 December 6, 2007